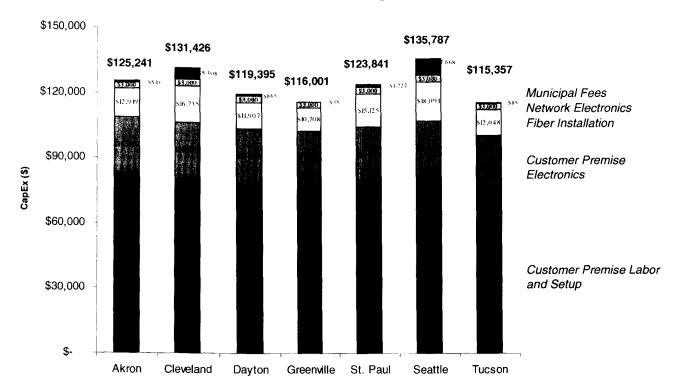
## Year 1 capital expenditures are highest in Seattle and lowest in Tucson primarily because of differences in fiber installation costs

#### Year 1 CapEx by Market for Building at 500 Feet

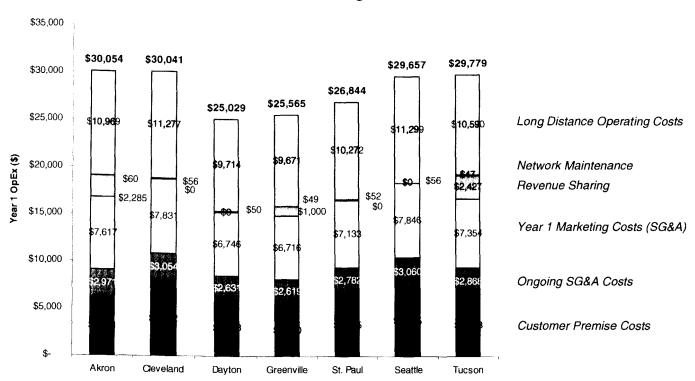


### **Primary Drivers**

- Labor costs vary widely from market to market, directly affecting both fiber installation costs and customer premise labor and setup costs
  - Tucson has the lowest labor cost of the seven markets
  - Seattle has the highest labor cost of the seven markets
- Municipal fees fluctuate substantially for each city
  - Tucson has a very low permit cost of \$85 at 500 feet
  - Seattle has a high permit cost of \$7,668 at 500 feet

## Differences in operating costs are primarily due to differences in customer premise costs

#### Year 1 OpEx by Market for Building at 500 Feet



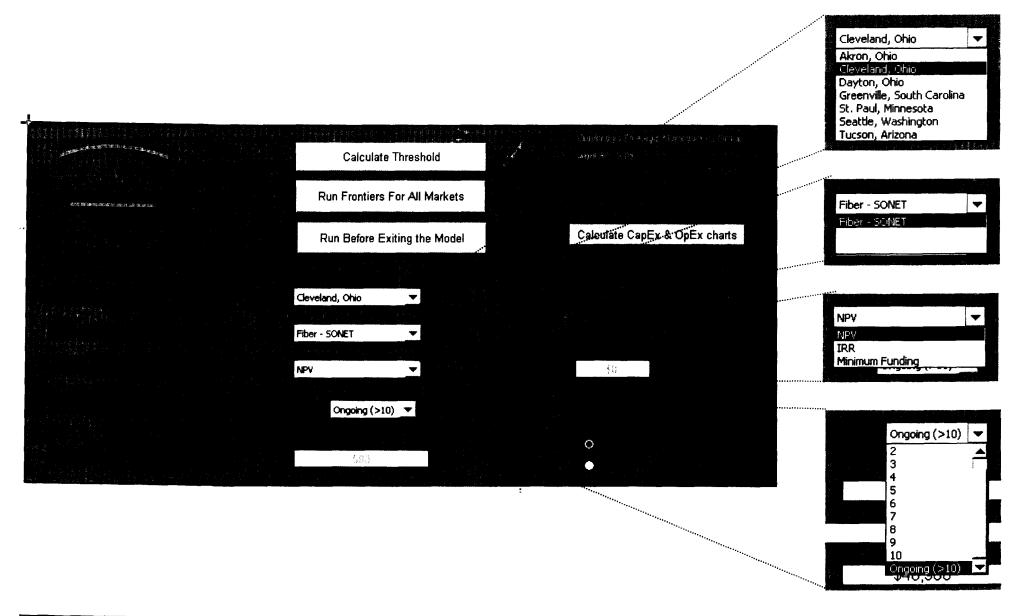
#### **Primary Drivers**

- Customer Premise costs have the greatest impact on OpEx differences across markets
  - Variations in rent to building owners account for much of this variation
  - Rents for Tier 1 cities can be 50% more than those for a Tier 3 city due to demand
- Differences in franchise agreements also account for a significant portion of the variation
  - Cleveland, Dayton, St. Paul, and Seattle do not have any franchise agreements (but have higher upfront for permitting costs)
  - Tucson has a very high franchise agreement cost at 5.5% of annual revenues
  - Greenville charges an annual fee of \$1,000 in lieu of a percent of revenues

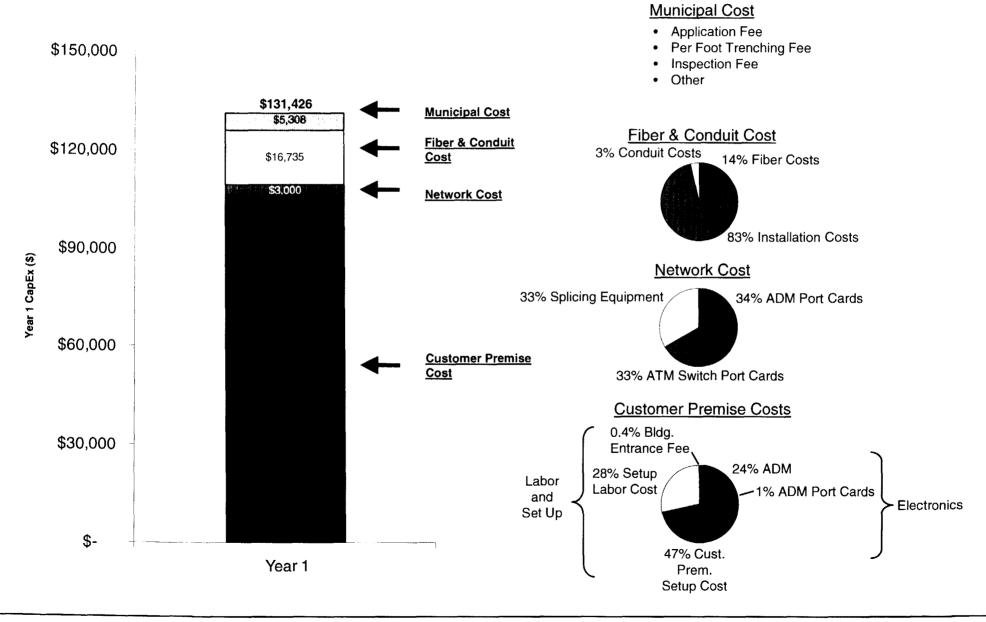
## Today's discussion

- Background & Introduction
- Current Results
- Model Architecture Design
- Assumptions and Sources

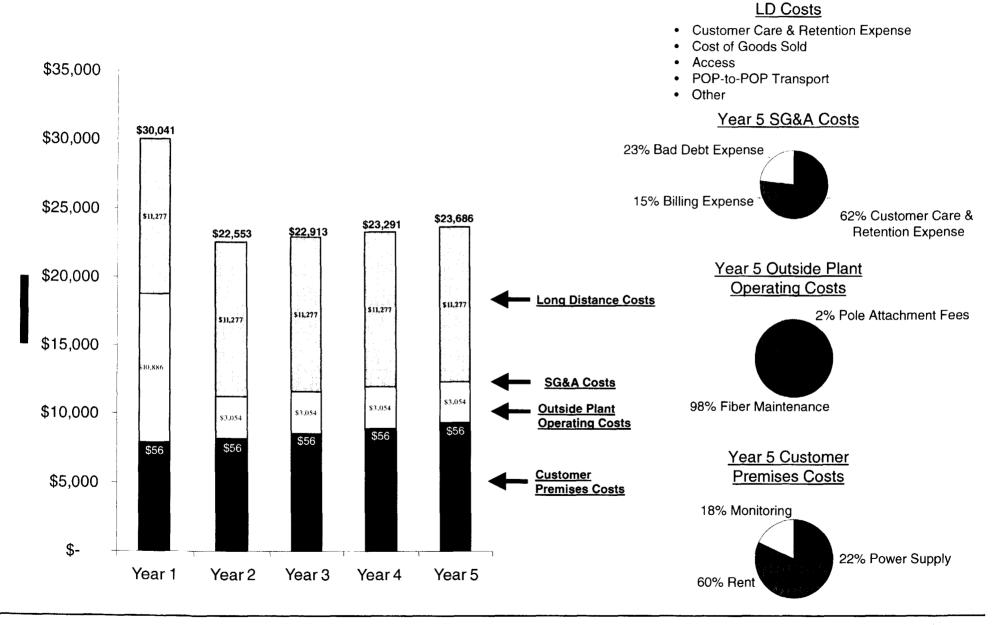
The model builds on a choice of city, a choice of technology, what we define as "breakeven", and a lateral distance



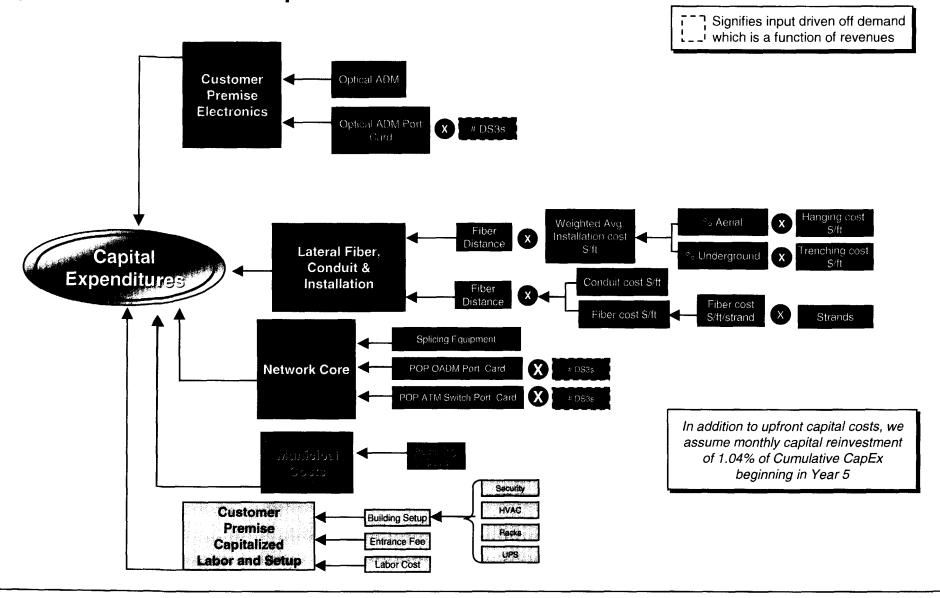
# For a building in Cleveland at 500 feet from CLEC fiber, we have the following capital expenditures...



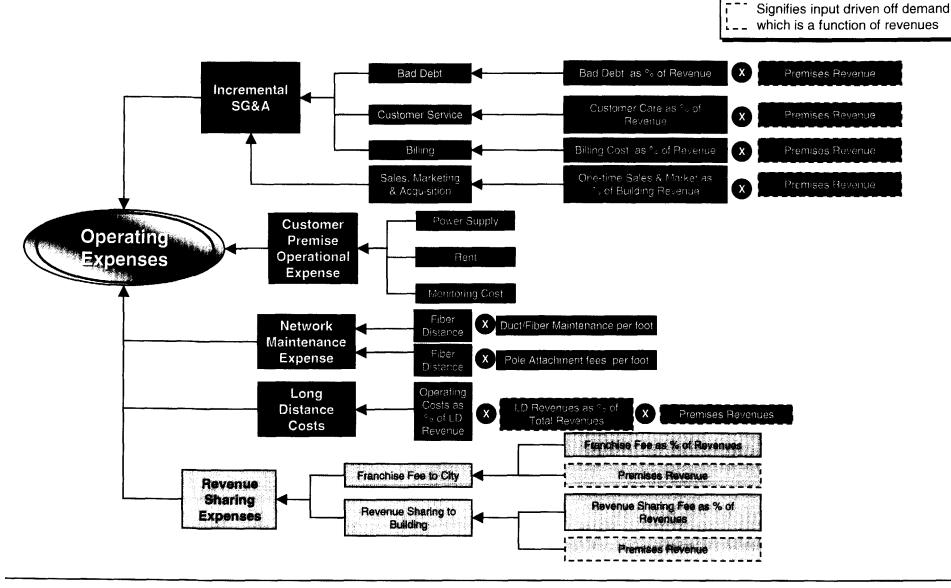
## The same Cleveland building results in the following operating expenses through year 5...



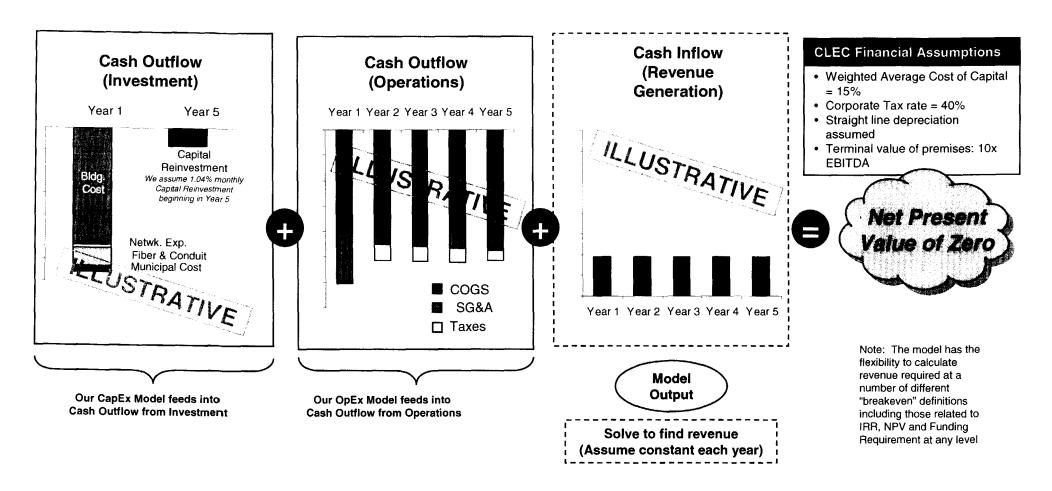
The capital expenditures are driven by five main investment components: building electronics, lateral fiber and conduit, network core, municipal costs, and capitalized labor and setup



Operating expenses are driven by five components: SG&A, customer premise expenses, maintenance expense, long distance costs and revenue sharing



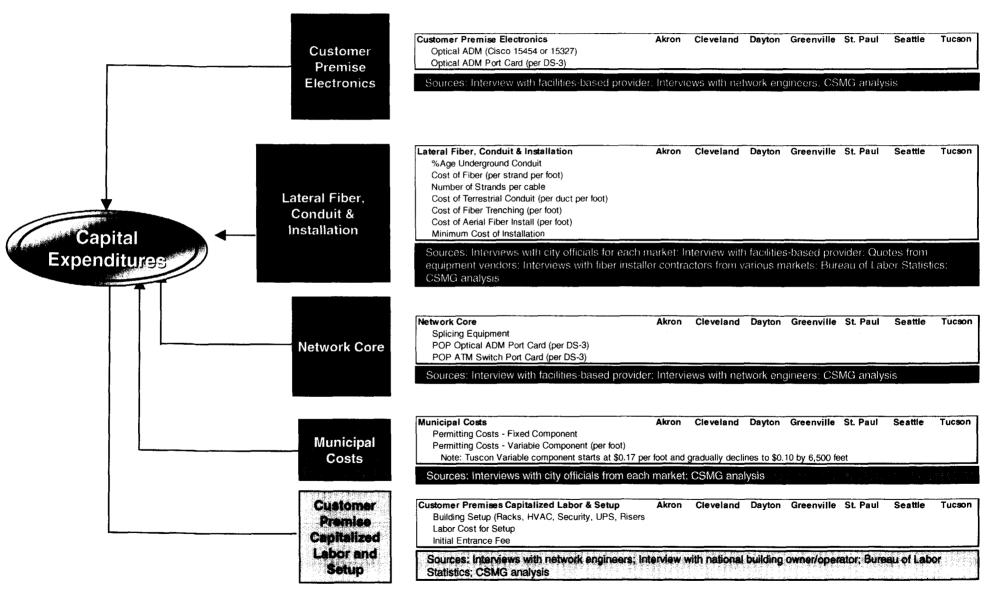
From the CapEx and OpEx models we develop cash outflows from investment and operations and then solve to find the breakeven revenue that results in net present value of zero



### Today's discussion

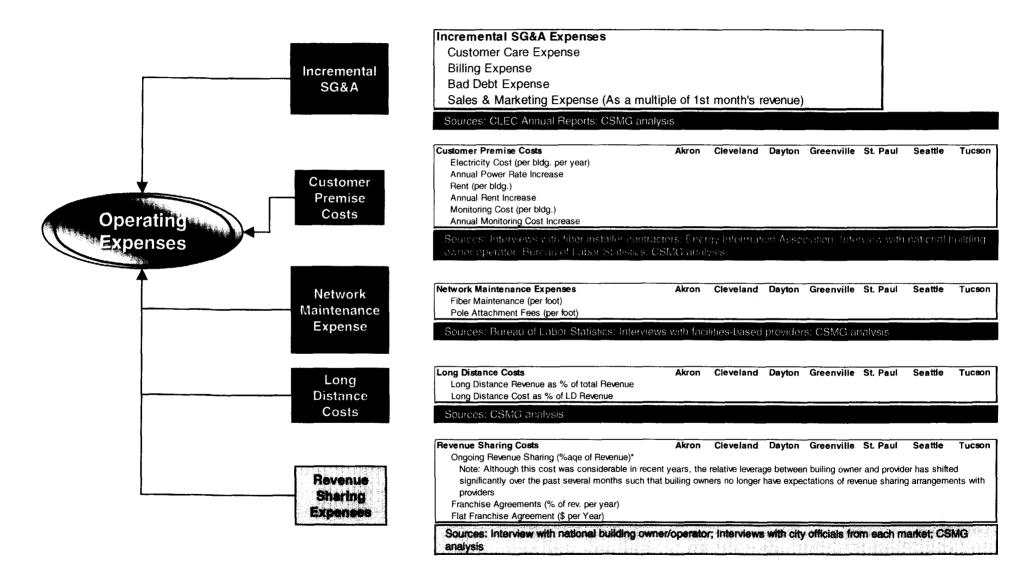
- Background & Introduction
- Current Results
- Model Architecture Design
- Assumptions and Sources

### The following are the specific market inputs for capital expenditures...



Note: Data is rounded and calculations based on these rounded numbers may not exactly equal cost depicted on page 28

### The following are the specific market inputs for operating expenses...



Note: Data is rounded and calculations based on these rounded numbers may not exactly equal cost depicted on page 29

Note that we assume there is no existing conduit available for lease, a relatively conservative assumption. If we run the model assuming a CLEC leases conduit, the revenue breakeven frontiers are substantially reduced, especially at longer distances...

#### Annual Revenue Breakeven Threshold (NPV = 0) by Distance per Building

		-								
Akron, Ohio	\$43,857	\$44,624	\$45,592	<b>\$46</b> ,559	<b>\$</b> 47,527	\$48,495	\$49,462	<b>850</b> ,430	<b>\$5</b> 1,397	<b>\$52,</b> 365
Cleveland, Ohio	\$44,126	\$45,030	\$45,934	\$46,838	<b>\$</b> 47,742	\$48,646	\$49,550	<b>\$5</b> 0,459	\$51,357	\$52,261
Dayton, Ohio	\$38,597	\$39,539	\$40,469	\$41,405	\$42,841	\$48,277	<b>644</b> ,213	<b>\$</b> 45,149	\$46,085	<b>\$47,</b> 021
Greenville, South Carolina	\$38.867	\$39,768	\$40,670	\$41,571	\$42,472	\$43,374	\$44,276	<b>\$</b> 45,178	<b>\$46</b> ,079	\$46,981
St. Paul, Minnesota	\$40,219	\$41,277	\$42,335	\$43,393	<b>\$4</b> 4,451	\$45,509	\$46,568	\$47,626	\$48,684	\$49,742
Seattle, Washington	\$43,925	\$44,844	\$45,768	\$46,682	\$47,601	\$48,520	\$49,440	<b>\$</b> 50,359	\$51,278	<b>\$</b> 52,198
Tucson, Arizona	\$42,180	\$43,164	\$44,151	\$45,137	\$46,124	\$47,109	\$48,089	\$49,068	\$50,092	<b>\$5</b> 1,115